



Dr. Daniel M. Ginosar

Significant research in heterogeneous catalysis in supercritical fluids, solid acid catalysis and supercritical fluid synthesis of nano- and micron-scale materials

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Education: Dr. Daniel M. Ginosar received his B.S. in chemical engineering in 1981 from U.C. Davis and his Ph.D. in chemical engineering in 1994 from the University of Kansas.

Work experience: He is an advisory scientist in the Chemistry Department at the Idaho National Laboratory. Dr. Ginosar has been employed at the INL since 1993; he is currently the technical and group leader of the Supercritical Fluids Group in the Chemistry Department. Prior to his graduate work, Dr. Ginosar was employed as an engineer at the UNOCAL San Francisco Refinery from 1981 through 1987.

Licensing information

For information on licensing INL technologies such as those developed by Mr. Ginosar, contact the Lead Account Executive for Nuclear Energy:

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Professional endeavors: Dr. Ginosar's research interests include heterogeneous catalysis in supercritical fluids, solid acid catalysis, and supercritical fluid synthesis of nano- and micron-scale materials, and has been awarded nearly \$4,000,000 in research grants with work in the areas of catalytic upgrading of gasoline stocks, chemical production, thermochemical water splitting, waste to fuels, environmental remediation and the production of nanomaterials from supercritical fluids. Dr. Ginosar is currently the principal investigator for two DOE-FE funded research projects: "Development of a Solid Catalyst Alkylation Process Using Supercritical Fluid Regeneration" and "Proton Exchange Reactive Membranes for Conversion of Light Alkanes to Clean Liquid Fuel," and two internally funded laboratory research projects, "Supercritical Fluid Catalyst Regeneration Chemistry" and "Hydrogen Production from High Temperature Nuclear Reactors." Dr. Ginosar has authored multiple peer-reviewed publications, patents and national presentations in these areas.

Patents:

U.S. Patent No. 6,086,837 -- Method of Synthesizing Enriched Decaborane for use in Generating Boron Neutron Capture Therapy Pharmaceuticals

U.S. Patent No. 6,103,948 -- Solid catalyzed isoparaffin alkylation at supercritical fluid and nearsupercritical fluid conditions

U.S. Patent No. 6,402,952 -- Apparatus and Method for Extraction of Chemicals from Aquifer Remediation Effluent Water

U.S. Patent No. 6,495,204 -- Method for Modifying Monofilaments, Bundles of Monofilaments, and Fibrous Structural Materials

U.S. Patent No. 6,511,601 -- Method and System for Extraction of Chemicals from Groundwater Remediation Effluent Water